

A.4.1



State of Illinois

ENVIRONMENTAL PROTECTION AGENCY

USEPA
S. Hamper

Mary A. Gade, Director
217/524-3300

2200 Churchill Road, Springfield, IL 62794-9276

January 10, 1994

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RECORD CENTER

JAN 28 1994

Mr. George Yanku
Akzo Chemicals, Inc.
300 South Riverside Plaza
Chicago, Illinois 60606-6697

Re: 0311740009--Cook County
ILD000805705 ✓
Akzo Chemicals, Inc.
Log No. C-615-M-4
Received: October 10, 1993
RCRA Closure

Dear Mr. Yanku:

This letter is written in response to the correspondence dated September, 1993 and received by the Agency on October 10, 1993. This submittal was in regard to closure activities to be carried out in accordance with the Agency's April 29, 1993 closure plan modification (C-615-M-3).

The submittal consisted of two reports entitled Site Characterization Supplement and PNA Background Sampling submitted by Huff & Huff, Inc. on behalf of Akzo Chemicals, Inc. It addressed the RCRA closure of a hazardous waste container storage (SO1) area. This submission contained a summary of analytical results from sampling conducted as a part of the approved RCRA closure plan to determine the extent of vertical and horizontal soil contamination and a request for Class II Cleanup Objectives. The subject submittal was reviewed as a closure plan modification request since it requested Class II Cleanup Objectives and proposed to demonstrate by further sampling that the PNAs found were attributable to background conditions. The request to modify the closure plan for the hazardous waste container storage area (SO1) at the above-referenced facility is hereby approved subject to the following conditions and modifications (it is understood that some of the requirements associated with these conditions and modifications may have been met):

1. This approval letter shall supersede the previous letter dated April 29, 1993.
2. Closure activities must be completed by June 15, 1994. When closure is complete the owner or operator must submit to the Agency certification both by the owner or operator and by an independent registered professional engineer that the facility has been closed in accordance with the specifications in the approved closure plan. This certification must be received at this Agency within sixty (60) days after closure, or by August 15, 1994.
These dates may be revised if Akzo Chemical Inc. finds that additional time is necessary to complete all required closure activities and Akzo Chemicals, Inc. demonstrates to the Agency that it is attempting to complete closure in a timely manner.

The attached closure certification form must be used. Signatures must meet the requirements of 35 Ill. Adm. Code Section 702.126. The independent engineer

should be present at all critical, major points (activities) during the closure. These might include soil sampling, soil removal, backfilling, final cover placement, etc. The frequency of inspections by the independent engineer must be sufficient to determine the adequacy of each critical activity. Financial assurance must be maintained for the units approved for closure herein until the Agency approves the facility's closure certification.

The Illinois Professional Engineering Act (Ill. Rev. Stat., Ch. 111, par. 5101 et. seq.) requires that any person who practices professional engineering in the State of Illinois or implies that he (she) is a professional engineer must be registered under the Illinois Professional Engineering Act (par. 5101, Sec. 1). Therefore, any certification or engineering services which are performed for a closure plan in the State of Illinois must be done by an Illinois P.E.

Plans and specifications, designs, drawings, reports, and other documents rendered as professional engineering services, and revisions of the above must be sealed and signed by a professional engineer in accordance with par. 5119, sec. 13.1 of the Illinois Professional Engineering Act.

As part of the closure certification, document the closure activities at the subject facility, a Closure Documentation Report must be submitted which includes the following:

- a. The volume of waste, waste residue and contaminated soil (if any) removed. The term waste includes wastes resulting from decontamination activities.
- b. Scaled drawings showing the horizontal and vertical boundaries of the extent of any soil removal effort.
- c. A description of the method of waste handling and transport.
- d. The waste manifest numbers.
- e. Copies of the waste manifests.
- f. A chronological summary of closure activities and the cost involved.
- g. Color photo documentation of closure. Document conditions before, during and after closure.
- h. Information documenting the results of all soil sampling/analysis efforts. The goal of presenting this information should be to describe, in a logical manner, the activities and results associated with the sampling/analysis effort. At a minimum, this information must include:
 1. identification of the reason for the sampling/ analysis effort and the goals of the effort;
 2. a summary in tabular form of all analytical data, including all quality assurance/quality control data;
 3. a scaled drawing showing the horizontal and vertical locations from which all soil samples were collected;

4. identification of the depth and vertical interval from which each sample was collected;
5. a description of the soil sampling procedures, sample preservation procedures and chain of custody procedures;
6. identification of the test method used and detection limits achieved, including sample preparation, sample dilution (if necessary) and analytical inferences;
7. copies of the final laboratory report sheets, including final sheets reporting all quality assurance/quality control data;
8. visual classification of each soil sample in accordance with ASTM D-2488;
9. a summary of all procedures used for quality assurance/quality control; including the results of these procedures; and
10. a discussion of the data, as it relates to the overall goal of the sampling/analysis effort.

The original and two (2) copies of all certifications, logs, or reports which are required to be submitted to the Agency by the facility should be mailed to the following address:

Illinois Environmental Protection Agency
Division of Land Pollution Control -- #33
Permit Section
2200 Churchill Road
Post Office Box 19276
Springfield, Illinois 62794-9276

3. The concrete surfaces and sumps shall be visually inspected, photographed and any residue adhering to the surface must be removed by scraping and/or brushing. Following this, the concrete surfaces must be steam cleaned and triple rinsed. All wash and rinse water shall be collected. If analysis of the wash or rinse water samples detect the presence of F001 constituents above the constituent's PQL identified in SW-846 (Third Edition, including Final Update I), then that material must be managed as a hazardous waste. If the wash or rinse water samples exhibit a characteristic of hazardous waste then that material must be managed as a hazardous waste. In any event the material must be managed as a special waste.

After cleaning the concrete surfaces, an independent registered professional engineer shall inspect the integrity of the concrete surfaces. These surfaces shall be inspected for cracks which penetrate through the concrete. In addition, all construction joints must be inspected to ensure they are watertight. This inspection must be carried out in accordance with standards and recommendations of professional/technical entities such as the American Concrete Institute, the Portland Cement Association, the American Society for Testing and Materials, the American Society of Civil Engineers, etc. which relate to the ability of concrete structures to contain liquids. The results of this inspection shall be (1) submitted in the form of a report, (2) included in the closure documentation report required by

condition, and (3) certified in accordance with 35 Ill. Adm. Code 702.126 by the engineer. The reports must include (1) the results of the inspection, (2) scaled drawings showing the location of all cracks and construction joints observed during the investigation, (3) conclusions reached regarding any cracks or construction joints observed in the areas of concern, (4) justification for the conclusions reached (e.g., information must be provided which indicates that any construction joints in the areas of concern are indeed watertight), and (5) photographs to support the conclusions reached.

4. If joints, cracks or other defects are found in the hazardous waste container storage area (SO1) which would potentially allow hazardous waste or hazardous constituents to migrate through them. Soil samples must be collected from beneath them to determine if hazardous waste or hazardous constituents have been released to the underlying soil. This sampling/analysis effort shall be carried out in accordance to the below procedures.
 - a. Samples must be collected from at least one location along each joint or crack that provides a potential for hazardous waste or hazardous constituents to migrate to underlying soil. If the crack/joint is more than 15' long, then samples must be collected from along crack/joint at 15' intervals. Such locations shall be biased to stained areas or low-lying areas where spills would tend to accumulate.
 - b. The procedures used to collect and analyze all samples shall be carried out in accordance with the procedures approved by this letter.
 - c. Samples shall be collected from 0"-6" and 18"-24" below the subgrade/natural soil interface.
5. Based on the sampling conducted near the hazardous waste container storage area, the soil surrounding the area contains containment levels exceeding the established soil cleanup objectives (CUOs) in Condition 9. Therefore, additional sampling must be done to determine the horizontal and vertical limits of the soil which exceed the CUOs. The following procedure must be utilized in the collection of all required soil samples:
 - a. The procedures used to collect the soil samples must be sufficient so that all soil encountered is classified in accordance with ASTM Method D-2488.
 - b. If a drill rig or similar piece of equipment is necessary to collect required soil samples, then:
 1. the procedures specified in ASTM Method D-1586 (Split Spoon Sampling) or D-1587 (Shelby Tube Sampling) must be used in collecting the samples.
 2. Soil samples must be collected continuously at several locations to provide information regarding the shallow geology of the area where the investigation is being conducted;
 - c. Soil samples not collected explicitly for VOC analysis should be field-screened for the presence of VOCs;
 - d. All soil samples which will be analyzed for volatile organic compounds must be

collected in accordance with Attachment 7 of the Agency's RCRA closure plan instructions;

- e. All other soil samples must be collected in accordance with the procedures set forth in SW-846.
 - f. When visually discolored or contaminated material exists within an area to be sampled, horizontal placement of sampling locations shall be adjusted to include such visually discolored and/or contaminated areas. Sample size per interval shall be minimized to prevent dilution of any contamination.
6. Quality assurance/quality control procedures which meet the requirements of SW-846 must be implemented during all required sampling/analysis efforts.
7. All soil samples shall be analyzed individually (i.e., no composting). Analytical procedures shall be conducted in accordance with Test Methods for Evaluating Solid Wastes, Third Edition (SW-846). When a SW-846 (Third Edition) analytical method is specified, all the chemicals listed in the Quantitation Limits Table for that method shall be reported unless specifically exempted in writing by the Agency. Apparent visually contaminated material within a sampling interval shall be included in the sample portion of the interval to be analyzed. To demonstrate a parameter is not present in a sample, analysis results must show a detection limit at least as low as the PQL for that parameter in the third edition of SW-846. For inorganic parameters, the detection limit must be at least as low as the RCRA Groundwater Detection Limits, as referenced in SW-846 (Third Edition) Volume 1A, pages TWO-29 and TWO-30, Table 2-15. If possible, your sampling program should be extensive enough to determine the lateral and vertical extent of contamination to the detection limit (PQLs) referenced above.

Please note, the Agency will establish cleanup objectives for compounds which are detected above their required detection limit, if a cleanup objective has not been established.

8. Based on the information contained in the September, 1993 submittals, Akzo is proposing to prove that the PNA contamination is not due to the hazardous waste storage unit. In order to accomplish this goal, Akzo must complete the following activities:
- a. The Agency requires a minimum of ten (10) background samples from each soil horizon of concern to establish cleanup objectives (see Recommended Statistical Method for Evaluating Background Data).
 - b. Samples will be collected at two depths, 18 inches to 24 inches and 36 inches to 42 inches and analyzed for PNAs by SW-846, Method 8310.
 - c. The procedures used to collect the soil samples must be set forth from SW-846 and sufficient enough that all soil encountered is classified in accordance with ASTM Method D 2488.
 - d. The statistical method to be used to analyse the data is located in Attachment 1 (see condition 8a.).
9. - In regards to your request for Class II Cleanup Objectives, the data provided in your submittal indicates that the groundwater is ten (10)) feet or more below the

land surface and has met the criteria of 35 IAC 620.210(A)(3) and 35 IAC 620.210(a)(4)(A); therefore, the groundwater at the facility is subject to Class I groundwater standards. However, the Agency has determined that closure with respect to Class II groundwater cleanup objectives will be protective of the groundwater ten (10) feet or more below the land surface.

10. To ensure the clean-closure requirements of 35 IAC 725.211 and 725.214 are met, the soil which remains in and around the hazardous waste storage area must meet the following soil cleanup objectives (unless otherwise noted, the unit of concentration associated with the values in the table is mg/kg):

Soil		Parameter	
		Objective (mg/kg)	ADL (mg/kg)
Acenaphthene (2)	42.0		0.66
Anthracene (2)	210.0		0.66
Benzo(a)anthracene		0.013	0.0087
Benzo(a)pyrene		0.023	0.015
Benzo(b)fluoranthene		0.018	0.012
Benzo(k)fluoranthene		0.017	0.011
Chrysene		0.15	0.1
Dibenzo(a,h)anthracene (2)		0.03	0.02
Fluoranthene	28.0		0.14
Fluorene (2)	28.0		0.14
Indeno(1,2,3-c,d)pyrene		0.043	0.029
Naphthalene		0.039	0.0006
Other Non-Carcinogenic PNAs	21.0		
Acenaphthylene (2)			0.66
Benzo(g,h,i)perylene			0.051
Phenanthrene			0.66
Tetrachloroethylene		0.025	0.0004
Trichloroethylene		0.025	0.0001
1,1-Dichloroethane (2)		3.5	0.0007
1,1-Dichloroethylene (2)		0.035	0.0007

cis-1,2-Dichloroethylene (2)	0.035	0.0001
trans-1,2-Dichloroethylene (2)	0.5	0.0005
1,2-Dichloroethane (2)	0.025	0.0005
Vinyl chloride (2)	0.01	0.00006
Formaldehyde	ADL	Refer to Note 3

NOTES:

- (1) ADL = Acceptable detection limit; for guidance only.
 - (2) TCLP = Cleanup objective based on the analysis of the extract from the Toxicity Characteristic Leaching Procedure -- Method 1311 of Test Methods for Evaluating Solid Waste, Third Edition (SW-846).
 - (3) Acceptable Detection Limits have been set by the Agency to aid in the evaluation of residual soil contamination for those substances where health or environmentally based cleanup objectives are below commonly attainable detection limits. The stated cleanup objectives remain the goal; however the Agency will accept analyses as proof of acceptable cleanup if these analyses (1) do not detect the parameter of concern, (2) have a detection limit which is at or below the ADL for that parameter and (3) were conducted in accordance with the quality assurance criteria set forth in SW-846.
11. If contaminated soil is encountered during any required soil sampling/analysis effort, then a sufficient number of additional samples should be collected and analyzed to clearly determine the horizontal and vertical limits of the soil which exceed the established cleanup objective in and around the hazardous waste storage area closure. The procedures used to collect and analyze these samples must be in accordance with those approved by this letter. The procedures used for determining the horizontal and vertical locations from which these samples must be collected shall be in accordance with Sections 13.a and 13.b of the Agency's RCRA closure plan instructions. However, no random sampling shall be used to make this determination.
- a. The Agency shall be notified in writing if contaminants not listed in Condition 9 are detected above their respective practical quantitation limit. This notification shall identify the additional constituents detected and the concentration at which they were detected. The Agency will review this information and establish cleanup objectives for the newly detected contaminants, if necessary. The sampling and analysis effort being carried out to determine the extent of contamination shall not be delayed while the Agency reviewing this information.
12. The Agency must be notified in writing if, at anytime, it is found that soil - contamination above the established cleanup objectives extends to near the water table. This notification must be made within 15 days after such a discovery is

made. A plan to investigate for potential groundwater contamination must be submitted to the Agency for review and approval within 60 days after the initial written notification is submitted to the Agency.

13. If groundwater is encountered during the soil sampling activities prior to reaching soil which meets the cleanup objectives, a plan to investigate for potential groundwater contamination must be submitted to the Agency for review and approval. Such a plan must be submitted within sixty (60) days after the date that the analytical results are received which indicate that soil contamination extends to the water table. In addition, the Agency shall be notified in writing of this discovery within five (5) days after these analytical results are received.
14. If Akzo Chemical determines that soil excavation and off-site disposal is not the preferred remedial action for this closure, then the Agency must be notified in writing when such a determination is made. At that time, the Agency will provide Akzo Chemical with additional guidance regarding the information which must be submitted to the Agency for review and approval relative to the alternative remedial action which the facility would like to implement.
15. Contaminated soil may be excavated and disposed off-site at any time during closure. The goal of any such effort should be to remove all soil which exceeds the established cleanup objectives.
16. If removal and off-site disposal is the remedial action chosen for any soil contamination found, then all contaminated soil which is excavated for off-site disposal must be:
 - a. managed as hazardous waste in accordance with 35 IAC 722, 723, 728 and 809, as well as all applicable federal requirements.
 - b. Analyzed to determine if it possesses any of the characteristics of hazardous waste as set forth in 35 IAC 721, Subpart C.
 1. If the soil is determined to be a hazardous waste, then it must be managed in accordance with the requirements set forth in Condition 6.a above.
 2. If the soil is determined to be a non-hazardous waste, then it must be managed as a non-hazardous special waste in accordance with 35 IAC 809.
17. If removal and off-site disposal is the chosen remedial action for any soil contamination found, then soil samples must be collected for analysis from the bottom and sidewalls of the final excavation from which contaminated soil was removed. This sampling and analysis effort necessary to demonstrate that the remaining soil meets the established cleanup objectives.
 - a. A grid system as set forth in Section 13.b of the Agency's closure plan instructions must be established over the excavation.
 - b. Samples must be collected from the floor of the excavation at each grid

- intersection, including intersections along the perimeter of the excavation.
- c. Samples must be collected 6"-12" from the top of the excavation wall at each grid intersection around the excavation perimeter. Samples must also be collected at the midpoint of the excavation wall at each grid intersection along the excavation perimeter.
 - d. Collection/Analysis of all required samples must be in accordance with the procedures approved in this letter.
 - e. Soil samples which must be analyzed for volatile organic compounds shall be collected using Attachment 7 of the Agency's RCRA closure plan instructions. Additionally, such samples must be collected 6"-12" beneath the floor/sidewalls of the excavation to minimize the possibility of volatilization of the contaminants prior to the collection of the samples.
 - f. No random sampling shall be conducted to verify that the cleanup objectives have been met.
18. If removal and off-site disposal is the chosen remedial action for any soil contamination found, then additional soil must be removed, as necessary, until it can be demonstrated that the remaining soil in and around the area of concern meets the established cleanup objectives. Additional samples must be collected and analyzed in accordance with the conditions of this letter.
 19. All references to the "Agency's RCRA closure plan instructions" refer to the document entitled Instructions for the Preparation of Closure Plans for Interim Status RCRA Hazardous Waste Facilities, December 11, 1990.
 20. If the Agency determines that implementation of this closure plan fails to satisfy the requirements of 35 Ill. Adm. Code, Section 725.211, the Agency reserves the right to amend the closure plan. Revisions of closure plans are subject to the appeal provisions of Section 40 of the Illinois Environmental Protection Act.
 21. Under the provisions of 29 CFR 1910 (51 FR 15,654, December 19, 1986), cleanup operations must meet the applicable requirements of OSHA's Hazardous Waste Operations and Emergency Response standard. These requirements include hazard communication, medical surveillance, health and safety programs, air monitoring, decontamination and training. General site workers engaged in activities that expose or potentially expose them to hazardous substances must receive a minimum of 40 hours of safety and health training off site plus a minimum of three days of actual field experience under the direct supervision of a trained experienced supervisor. Managers and supervisors at the cleanup site must have at least an additional eight hours of specialized training on managing hazardous waste operations.
 22. If clean closure cannot be achieved pursuant to 35 IAC 725 then a modified closure plan and a post-closure plan prepared pursuant to 35 IAC Section 725 must be submitted to the Agency for review and approval within 60 days of such a

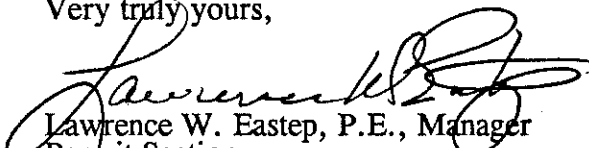
determination.

23. 35 IAC 721.131 F001 through F005 wastes must be disposed in accordance with 35 IAC Part 728.
24. To avoid creating another regulated storage unit during closure, it is recommended that you obtain any necessary permits for waste disposal prior to initiating excavation activities. If it is necessary to store excavated hazardous waste on-site prior to off-site disposal, do so only in containers or tanks for less than ninety (90) days. Do not create regulated waste pile units by storing the excavated hazardous waste in piles. the ninety (90) day accumulation time exemption (35 IAC 722.134) only applies to containers and tanks.
25. Please be advised that the requirements of the Responsible Property Transfer Act (Public Act 85-1338) may apply to your facility due to the management of RCRA hazardous waste. In addition, please be advised that if you store or treat on-site generated hazardous waste in containers or tanks pursuant to 35 IAC 722.134, those units are subject to the closure requirements identified in 35 IAC 722.134(a)(1).
26. All hazardous wastes that result from this project are subject to annual reporting as required in 35 IAC 722.141 and shall be reported to the Agency by March 1 of the following year for wastes treated and left on-site or shipped off-site for storage, treatment and/or disposal during any calendar year. Additional information and appropriate report forms may be obtained from the Agency by contacting:


Facility Reporting Unit
Division of Land Pollution Control
Illinois Environmental Protection Agency
P.O. Box 19276
Springfield, Illinois 62794-9276

Should you have any questions regarding this matter, please contact Ron Rybolt at 217/524-3300.

Very truly yours,


Lawrence W. Eastep, P.E., Manager
Permit Section
Division of Land Pollution Control
Bureau of Land

LWE:RGR 

cc: USEPA Region V -- George Hamper 



State of Illinois

ENVIRONMENTAL PROTECTION AGENCY

Part B Docket

USEPA

Mary A. Gade, Director
217/524-3300

2200 Churchill Road, Springfield, IL 62794-9276

March 30, 1993

RECEIVED APR 13 1993
WMD RCRA
RECORD CENTER

Mr. George E. Yanku
Akzo Chemicals Inc.
300 South Riverside Plaza
Chicago, Illinois 60606-6697

Re: 0311740009--Cook County
ILD000805705
Akzo Chemicals
Log No. C-615-M-2
Received: December 31, 1992

Dear Mr. Yanku:

The Illinois Environmental Protection Agency has reviewed the closure plan modification extension request submitted by Akzo Chemicals, Inc. on December 23, 1992. Your final closure plan to close the hazardous waste container (S01) storage area is hereby approved subject to the November 6, 1992 approved closure plan (Log No. C-615-M-1) with revised submission dates as follows. These approved dates include submitting a complete hydrogeological report by February 1, 1993 (Condition 11) and submitting the sampling results and the plans for soil removal by May 1, 1993 (Conditions 3 and 4). The date for completion of closure activities (Condition 1) is November 1, 1993. Certification of closure activities must be received at this Agency by January 1, 1994.

Should you have any questions regarding this matter, please contact Ron Rybolt at 217/524-3300.

Very truly yours,


Lawrence W. Eastep, P.E., Manager
Permit Section
Division of Land Pollution Control

LWE:RGR

cc: George Hamper, USEPA Region V
Huff & Huff, Inc.



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217/782-6762

MAR 16 1992

March 12, 1992

Lawrence E. Keller, P.E.
Akzo Chemicals, Inc.
300 South Riverside Plaza
Chicago, Illinois 60606

OFFICE OF RCRA
Waste Management Division
U.S. EPA, REGION V

Re: 0311740009 -- Cook County
Akzo Chemicals, Inc.
ILD000805705 ✓
Log No. C-615
Received: December 31, 1991
RCRA-Closure

Dear Mr. Keller:

The closure plan submitted by Akzo Chemicals, Inc. has been reviewed by this Agency. Your final closure plan to close the hazardous waste container (S01) storage area is hereby approved subject to the following conditions and modifications.

1. Closure activities must be completed by October 1, 1992. When closure is complete the owner or operator must submit to the Agency certification both by the owner or operator and by an independent registered professional engineer that the facility has been closed in accordance with the specifications in the approved closure plan. This certification must be received at this Agency within sixty (60) days after closure, or by December 1, 1992.

The attached closure certification form must be used. Signatures must meet the requirements of 35 Ill. Adm. Code Section 702.126. The independent engineer should be present at all critical, major points (activities) during the closure. These might include soil sampling, soil removal, backfilling, final cover placement, etc. The frequency of inspections by the independent engineer must be sufficient to determine the adequacy of each critical activity. Financial assurance must be maintained for the units approved for closure herein until the Agency approves the facility's closure certification.

The Illinois Professional Engineering Act (Ill. Rev. Stat., Ch. 111, par. 5101 et. seq.) requires that any person who practices professional engineering in the State of Illinois or implies that he (she) is a professional engineer must be registered under the Illinois Professional Engineering Act (par. 5101, Sec. 1). Therefore, any certification or engineering services which are performed for a closure plan in the State of Illinois must be done by an Illinois P.E.



Plans and specifications, designs, drawings, reports, and other documents rendered as professional engineering services, and revisions of the above must be sealed and signed by a professional engineer in accordance with par. 5119, sec. 13.1 of the Illinois Professional Engineering Act.

As part of the closure certification, to document the closure activities at your facility, please submit a Closure Documentation Report which includes:

- a. The volume of waste and waste residue removed. The term waste includes wastes resulting from decontamination activities.
- b. A description of the method of waste handling and transport.
- c. The waste manifest numbers.
- d. Copies of the waste manifests.
- e. A description of the sampling and analytical methods used, including sample preservation methods and chain-of-custody information.
- f. A chronological summary of closure activities and the cost involved.
- g. Color photo documentation of closure. Document conditions before, during and after closure.
- h. Tests performed, methods and results.

The original and two (2) copies of all certifications, logs, or reports which are required to be submitted to the Agency by the facility should be mailed to the following address:

Illinois Environmental Protection Agency
Division of Land Pollution Control -- #24
Permit Section
2200 Churchill Road
Post Office Box 19276
Springfield, Illinois 62794-9276

2. Along with your certification of closure, please submit a letter requesting withdrawal of your facility's Part A application.
3. If the Agency determines that implementation of this closure plan fails to satisfy the requirements of 35 Ill. Adm. Code, Section 725.211, the Agency reserves the right to amend the closure plan. Revisions of closure plans are subject to the appeal provisions of Section 40 of the Illinois Environmental Protection Act.



4. If contamination is detected beneath the container storage area, the Agency must be notified in writing within fifteen (15) days. A revised closure plan addressing remediation of the contamination detected must be submitted within timeframes established by the Agency.
5. A request for release of financial assurance documents should be included with the closure certification documents.
6. Under the provisions of 29 CFR 1910 (51 FR 15,654, December 19, 1986), cleanup operations must meet the applicable requirements of OSHA's Hazardous Waste Operations and Emergency Response standard. These requirements include hazard communication, medical surveillance, health and safety programs, air monitoring, decontamination and training. General site workers engaged in activities that expose or potentially expose them to hazardous substances must receive a minimum of 40 hours of safety and health training off site plus a minimum of three days of actual field experience under the direct supervision of a trained experienced supervisor. Managers and supervisors at the cleanup site must have at least an additional eight hours of specialized training on managing hazardous waste operations.
7. The concrete surfaces shall be visually inspected, photographed and any residue adhering to the surface must be removed by scraping and/or brushing. Following this, the concrete surfaces must be steam cleaned and triple rinsed. All wash and rinse water shall be collected. If analysis of the wash or rinse water samples detects the presence of listed hazardous waste constituents above the constituent's PQL identified in SW-846 (Third Edition), then that material must be managed as a hazardous waste. If the wash or rinse water samples exhibit a characteristic of hazardous waste, then that material must be managed as a hazardous waste. In any event the material must be managed as a special waste. If, after cleaning the concrete surfaces, any cracks, joints or other defects are found that would allow waste to migrate through the concrete into the underlying soil, a closure plan modification request addressing soil sampling at those locations must be submitted to this Agency within sixty (60) days of such a finding.
8. All samples must be analyzed for the parameters listed in Table 1 (page 10) of the December 31, 1991 closure plan. Soil samples must be collected starting at the natural soil/concrete base material interface to a depth of 12 inches. All samples shall be analyzed individually (i.e., no compositing). Sampling and analytical procedures shall be conducted in accordance with the third edition of SW-846 and Attachment 7 to this Agency's closure plan instruction package. When a SW-846 (Third Edition) analytical method is specified, all the chemicals listed in the Quantitation Limits Table for that method shall be reported unless



specifically exempted in writing by the Agency. When visually discolored or contaminated material exists within an area to be sampled, horizontal placement of sampling locations shall be adjusted to include such visually discolored and/or contaminated areas. Sample size per interval shall be minimized to prevent dilution of any contamination. Apparent visually contaminated material within a sampling interval shall be included in the sample portion of the interval to be analyzed. To demonstrate a parameter is not present in a sample, analysis results must show a detection limit at least as low as the PQL for that parameter in the third edition of SW-846. For inorganic parameters, the detection limit must be at least as low as the RCRA Groundwater Detection Limits, as referenced in SW-846 (Third Edition) Volume 1A, pages TW0-29 and TW0-30, Table 2-15. If possible, your sampling program should be extensive enough to determine the lateral and vertical extent of contamination to the detection limit (PQLs) referenced above.

9. The Agency will establish clean-up objectives to be used to determine if "clean" closure (closure by removal) has been achieved upon receipt and review of the sampling and analytical results required in the approved closure plan. These sampling and analytical results, along with a proposal for site specific clean-up objectives (if you wish to propose them) and a scaled drawing showing sample locations, must be submitted to this Agency by July 1, 1992.
10. Classification of the groundwater at your facility must be made in accordance with 35 Ill. Adm. Code Part 620 - Groundwater Quality Standards. The Agency will assume the groundwater beneath the hazardous waste container storage area is of Class I quality, as defined in 35 IAC Section 620.210, unless a hydrogeological characterization (i.e., soil boring logs, water well logs, pump tests, etc.) is performed to demonstrate that another classification is appropriate. See "Guidance for Establishing the Basis for Clean-up Objectives," a copy of which is enclosed. This hydrogeological characterization must be submitted, along with the sampling and analytical results, to the Agency for review and approval by July 1, 1992.
11. If clean closure cannot be achieved pursuant to 35 IAC Part 725, then a modified closure plan and a post-closure plan prepared pursuant to 35 IAC Part 725 must be submitted to the Agency for review and approval within 60 days of such a determination.
12. 35 IAC 721.131 F001 through F005 wastes must be disposed in accordance with 35 IAC Part 728.



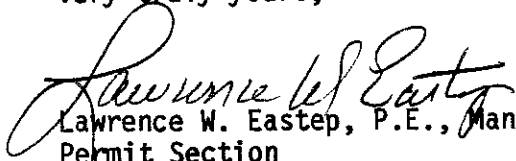
Page 5

13. To avoid creating another regulated storage unit during closure, it is recommended that you obtain any necessary permits for waste disposal prior to initiating excavation activities. If it is necessary to store excavated hazardous waste on-site prior to off-site disposal, do so only in containers or tanks for less than ninety (90) days. Do not create regulated waste pile units by storing the excavated hazardous waste in piles. The ninety (90) day accumulation time exemption (35 IAC 722.134) only applies to containers and tanks.
14. Please be advised that the requirements of the Responsible Property Transfer Act (Public Act 85-1228) may apply to your facility due to the management of RCRA hazardous waste. In addition, please be advised that if you store or treat on-site generated hazardous waste in containers or tanks pursuant to 35 IAC 722.134, those units are subject to the closure requirements identified in 35 IAC 722.134(a)(1).
15. All hazardous wastes that result from this project are subject to annual reporting as required in 35 IAC 722.141 and shall be reported to the Agency by March 1 of the following year for wastes treated and left on-site or shipped off-site for storage, treatment and/or disposal during any calendar year. Additional information and appropriate report forms may be obtained from the Agency by contacting:

Facility Reporting Unit
Division of Land Pollution Control
Illinois Environmental Protection Agency
P.O. Box 19276
Springfield, Illinois 62794-9276

Should you have any questions regarding this matter, please contact Hernando Albarracin at 217/782-6762.

Very truly yours,


Lawrence W. Eastep, P.E., Manager
Permit Section
Division of Land Pollution Control
Bureau of Land

²¹⁰
LWE:HAA:bjh/650r/69,73
_{JEM}

Attachment

cc: USEPA Region V -- George Hamper



ATTACHMENT

This statement is to be completed by both the responsible officer and by the registered professional engineer upon completion of closure. Submit one copy of the certification with original signatures and three additional copies.

Closure Certification Statement

Closure Log C-615

The hazardous waste management S01 unit at the facility described in this document has been closed in accordance with the specifications in the approved closure plan. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

USEPA ID Number

Facility Name

Signature of Owner/Operator

Name and Title

Signature of Registered P.E.

Name of Registered P.E. and Illinois
Registration Number

Date

LWE:HAA:bjh/650r/74



217/782-6762

Log No. 308

Received: March 9, 1987

Refer to: 0311740009 -- Cook County
McCook/Akzo Chemie America
IL8000005705
RCRA-Closure

May 5, 1987

Akzo Chemie America
Attn: Mr. Charles E. Plank
8401 W. 47th Street
McCook, Illinois 60525

Dear Mr. Plank:

The closure plan submitted by yourself has been reviewed by this Agency. Your final closure plan to close the hazardous waste Container (301) storage area is hereby approved subject to the following conditions.

1. Closure activities must be completed by June 1, 1987. When closure is complete the owner or operator must submit to the Director certification both by the owner or operator and by an independent registered professional engineer that the facility has been closed in accordance with the specifications in the approved closure plan. This certification must be received at this Agency within 60 days after closure, or by August 1, 1987.

The attached closure certification form must be used. Signatures must meet the requirements of 35 Ill. Adm. Code Section 702.126. The independent engineer should be present at all critical, major points (activities) during the closure. These might include soil sampling, soil removal, backfilling, final cover placement, etc. The frequency of inspections by the independent engineer must be sufficient to determine the adequacy of each critical activity. Financial assurance must be maintained for the units approved for closure herein until the Agency approves the facility's closure certification.

Also along with closure certification, to document the closure activities at your facility, please submit a Closure Documentation Report which includes:

- a. The volume of waste and waste residue removed.
- b. A description of the method of waste handling and transport.
- c. The waste manifest numbers.



Page 2

- d. Copies of the waste manifests.
 - e. A description of the sampling and analytical methods used.
 - f. A chronological summary of closure activities and the cost involved.
 - g. Photo documentation of closure.
2. The "Certification Regarding Potential Releases from Solid Waste Management Units" which you submitted is being forwarded to the USEPA for possible future action. The approval of this closure plan neither approves nor disapproves of the aforementioned "Certification".
 3. Enclosed is a Part A application form. In accordance with 35 Ill. Adm. Code Section 703.152 and 703.155, closure of your container (501) storage requires modification of your Part A application. Please complete this form and submit it along with a cover letter requesting Part A modification.
 4. If the Agency determines that implementation of this closure plan fails to satisfy the requirements of 35 Ill. Adm. Code, Section 725.211, the Agency reserves the right to amend the closure plan.

Should you have any questions regarding this matter, please contact Eugene W. Dingledine at 217/785-2852.

Very truly yours,

Lawrence W. Eastep, P.E., Manager
Permit Section
Division of Land Pollution Control

LWE:END:rmi/2450g/15-16

Attachment

cc: Northern Region
Division File - Closure
Financial Assurance Unit
USEPA Region V -- Jim Nayka
USEPA Region V -- Mary Murphy
Compliance Monitoring Section



ATTACHMENT

This statement is to be completed by both the responsible officer and by the registered professional engineer upon completion of closure. At least one copy of the certification must contain the original signatures.

Closure Certification Statement

The hazardous waste management unit at the facility described in this document has been closed in accordance with the specifications in the approved closure plan. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

USEPA ID Number

Facility Name

Signature of Owner/Operator

Name and Title

Signature of Registered P.E.

Name of Registered P.E. and
Registration Number

Date

LWC:EMD:rm1/2450g/17

Mary M.



Illinois Environmental Protection Agency 2200 Churchill Road, Springfield, IL 62706

217/782-6762

Refer to: 0311740009 -- Cook County
McCook/Akzo Chemie America
Closure Plan Approved: May 5, 1987
ILDC000805705
RCRA-Closure

Log #308

RECEIVED

July 1, 1987

JUL 13 1987

SOLID WASTE BRANCH
U.S. EPA, REGION V

Akzo Chemie America
Attention: Charles E. Plank
8401 W. 47th Street
McCook, Illinois 60525

Dear Mr. Plank:

The subject hazardous waste management facility was inspected by a representative of this Agency on June 8, 1987. The inspection revealed that the closure activity was completed in accordance with the approved closure plan dated March 5, 1987.

Certification that the storage (S01) area had been closed in accordance with the approved closure plan by the owner/operator, Akzo Chemie America, and an independent registered professional engineer, James E. Huff, P.E., of Illinois was received at this Agency May 21, 1987.

The Agency has determined that the closure of the storage (S01) area has apparently met the requirements of Interim Status Standards, 35 Ill. Admin. Code, Part 725 (40 CFR, Part 265). Please note, the Agency has approved your modified Part A application dated April 3, 1987 to reflect the status change due to completed closure activities.

This facility must continue to meet the requirements of 35 Ill. Admin. Code, Part 722 (40 CFR Part 262) -- Standards Applicable to Generators of Hazardous Waste and 35 Ill. Admin. Code, Part 723 (40 CFR Part 263) -- Standards Applicable to Transporters of Hazardous Waste.



Page 2

If you have any questions, please contact Eugene W. Dingleline at 217/785-2892.

Very truly yours,

Lawrence N. Eastep
Lawrence N. Eastep, P.E., Manager
Permit Section
Division of Land Pollution Control

LWE:END:rd2971g/56-57

cc: Northern Region
USEPA Region V, Mary Murphy
USEPA Region V, Art Kawatachi
James E. Huff, P.E.
Division File
Financial Assurance Unit
Compliance Monitoring



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

FEBRUARY 20, 1987

AKZO CHEMIE AMERICA
8401 W. 47th STREET
McCOOK, IL. 60525

Re: Closure Plan Review

Facility Name: AKZO CHEMIE AMERICA

USEPA ID #: 000805705

0311740009

Dear SIR,

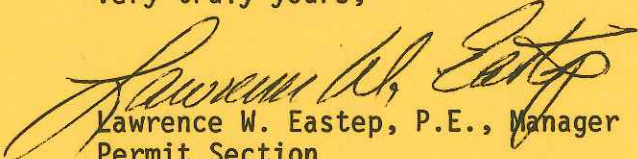
As you are aware, we are currently evaluating the request for closure of your facility as referenced above, and which is regulated under the Resource Conservation and Recovery Act (RCRA).

On November 8, 1984, the Hazardous and Solid Waste Amendments of 1984 (the Amendments) were enacted to amend RCRA. Under Section 206 and Section 233 (copies enclosed) of the Amendments, all facilities "seeking a permit" (taken to mean interim status facilities) must provide for corrective action for all releases of hazardous waste or constituents from any solid waste management unit, regardless of the time at which waste was placed in the Unit. Please note that both hazardous and non-hazardous wastes can meet the definition of solid waste under 40 CFR 261.2.

Consequently, we must determine whether such releases have ever occurred at the facility site. If they have, we must ensure that any necessary corrective actions either have been taken, or will be taken, pursuant to a decision on your closure plan. An important part of our determination includes your willingness (or unwillingness) to complete the enclosed certification form. Please read it carefully, complete it, and either sign and return it, or return it to us unsigned with a cover letter of explanation, within 30 days of the date of this letter. Public notice of your request for closure approval, and this request, will be in a newspaper of general circulation in the area of the facility.

Please call PERMIT SECTION at 217/782-6762 if you have any questions, or wish to discuss this matter further.

Very truly yours,


Lawrence W. Eastep, P.E., Manager
Permit Section
Division of Land Pollution Control

LWE:CA:tk:5/2/9

Enclosures

cc: David A. Stringham, USEPA - Region V
Permit Section
Division File

COPY



Illinois Environmental Protection Agency · 2200 Churchill Road, Springfield, IL 62706

File : Akzo Chemis. America, Part A Jim Mayka
Mc Cook, Illinois

217/782-6762

Refer to: 0311740009 -- Cook County
McCook/Akzo Chemie America
Closure Log #C-306

ILD 057833 642 ?

ILD 000805 705

March 4, 1987

RECEIVED

MAR 09 1987

U. S. EPA, REGION V
SWB — PMS

Akzo Chemie America
Attn: Mr. Charles E. Plank
8461 W. 47th Street
McCook, Illinois 60525

Dear Mr. Plank:

This letter is to inform you that the Agency has withdrawn the above referenced closure plan per the request of your February 27, 1987 letter which we received on March 2, 1987.

If you should have any questions, please contact Charlie Zeal at 217/782-6762.


Very truly yours,

Lawrence W. Eastep, P.E., Manager
Permit Section
Division of Land Pollution Control

LWE:CAZ:bjh/1760g/39

cc: Division File
Maywood Region
Compliance Monitoring Section
Financial Assurance Unit
USEPA Region V - Jim Mayka

COPY 2


Commercial Insurance Division
151 Farmington Avenue
Hartford, CT 06156
(203) 273-0123

1LD 000 805 705

12/20/84

U.S. ENVIRONMENTAL PROTECTION AGENCY
230 SOUTH DEARBORN ST.
CHICAGO, IL 60604

RE: AKZONA, INC.
ENKA, N.C. 28728

RECEIVED
JAN 3 1985
WASTE MANAGEMENT
BRANCH

Gentlemen,

Enclosed is an endorsement certifying proof of insurance for
the above named insured.

Regards,
Michael Bernabucci
Michael Bernabucci
Aetna Casualty & Surety
Underwriting Dept., E119
151 Farmington Ave.
Hartford, CT 06156

RECEIVED

JAN 03 1985

U.S. EPA, REGION V
WASTE MANAGEMENT DIVISION
OFFICE OF THE DIRECTOR

HAZARDOUS WASTE FACILITY ENDORSEMENT

This endorsement modifies such insurance as is afforded by the provisions of the policy relating to the following:

POLLUTION LIABILITY INSURANCE

It is agreed that:

1. The certification of the policy, as proof of financial responsibility under the provisions of Title 40 C.F.R. Part 264.147 or 265.147 (Environmental Protection Agency) amends the policy to provide insurance in accordance with the provisions of such regulations to the extent of coverage and limits of liability required thereby at the locations listed in the Schedule. Within the limits of liability provided, it is understood that no condition, provision, stipulation or limitation contained in the policy, or any other endorsement thereon or violation thereof or of this endorsement, by the insured, shall relieve the Company from liability hereunder or from the payment of any such final judgment, irrespective of the financial responsibility or lack thereof or insolvency or bankruptcy of the insured. However, all terms, conditions, and limitations in the policy to which this endorsement is attached are to remain in full force and effect as binding between the insured and the Company, and the insured agrees to reimburse the Company for any payment made by the Company on account of any accident, claim or suit involving a breach of the terms of the policy, and for any payment that the Company would not have been obligated to make under the provisions of the policy except for the agreement contained in this endorsement.
2. Whenever requested by the Regional Administrator, the Company agrees to furnish to the Regional Administrator a duplicate original of said policy and all endorsements thereon.
3. This endorsement may not be canceled without cancellation of the policy to which it is attached. Such cancellation may only be effected by the Company or the insured giving sixty (60) days' notice in writing to the Regional Administrator, such sixty (60) days' notice to commence to run from the date the notice is actually received by the Regional Administrator.
4. Notwithstanding any other provision of the policy, cancellation or termination may not be effected within 120 days of any fire, explosion, or unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, surface water,

SCHEDULE

Limits of Liability

\$ 1,000,000 each claim
\$ 2,000,000 aggregate.

<u>LOCATIONS (NAME OF FACILITY)</u>	<u>ADDRESS OR LOCATION</u>	<u>EPA IDENTIFICATION</u>
ARMAK INDUSTRIAL CHEMICAL DIVISION	8201 WEST 47TH ST. MCCOOK, ILL 60525	ILD057833642
ARMAK INDUSTRIAL CHEMICAL DIVISION	P.O. BOX 310 MORRIS, IL 60450	ILD065237851
ARMAK RESEARCH LABORATORY	8401 WEST 47TH ST. MCCOOK, IL 60525	ILD000805705

This endorsement forms a part of the policy to which attached, effective from its date of issue unless otherwise stated herein.

(The information below is required only when this endorsement is issued subsequent to preparation of policy.)

Endorsement Effective 1/1/85 Policy No. 01 GL 460978 SCA Endorsement No. 18

~~700 000 805 705~~
120 000 805 705

Notice of Cancellation

TO: U.S. ENVIRONMENTAL PROTECTION AGENCY
230 SOUTH DEARBORN ST.
CHICAGO, IL 60604

☒ The Aetna Casualty & Surety Company
☐ The Standard Fire Insurance Company
☐

This to notify you that effective 1-1-85
the Hazardous Waste Facility Certificate of Liability Insurance demonstrating
financial responsibility under 40 C.F.R. 264.147 or 265.147 or comparable
state law is cancelled.

Effective 1-1-85 Policy Number 01 GL 408981 SCA
issued for the following Insured is

☒ Cancelled
☐ NON Renewed

AKZONA, INC.
Name of Insured

BOX 2930
Address

ASHEVILLE, N.C. 28802

SEE ATTACHED
Name of Facility

Address

E.P.A. Identification Number

RECEIVED

DEC 4 1984

U.S. EPA, REGION V
WASTE MANAGEMENT DIVISION
OFFICE OF THE DIRECTOR

Robert Hager
(Signature)

ROBERT HAGER, DIRECTOR
Name & Title of Authorized Representative
of Aetna Casualty & Surety Co.

151 FARMINGTON AVENUE, HARTFORD CT. 06156
Address of Representative

ILD057833642

AKZO CHEMIE AMERICA

ARMAK INDUSTRIAL CHEMICAL DIVISION
8201 WEST 47TH STREET
MCCOOK, ILLINOIS 60525

ILD065237851

ARMAK INDUSTRIAL CHEMICAL DIVISION
P.O. BOX 310
MORRIS, ILLINOIS 60450

ILD000805705

ARMAK RESEARCH LABORATORY
8401 WEST 47TH STREET
MCCOOK, ILLINOIS 60525

5HR-12

10 JAN 1989

Harry Chappel, Chief
Compliance Monitoring Section
Division of Land Pollution Control
Illinois Environmental Protection Agency
2200 Churchill Road
Springfield, Illinois 62706

ILD 000 805 705

Re: Liability Insurance Coverage for
Barber-Colman Company and AKZO
American, Inc./Armak Industrial
Chemical Division

Dear Mr. Chappel:

The enclosed are liability insurance documents that were sent to our office for the above-referenced facilities. Please review the information and pursue the appropriate State compliance activity to assure that these facilities are in compliance with the financial responsibility requirements.

If you have any questions please contact Ms. Zetta Thomas at (312) 886-4581.

Sincerely yours,

Paul E. Dimock, Chief
IL/MI/WI Enforcement Program Section

Enclosures

cc: Andy Vollmer, IEPA
Virginia J. Miller, BC
Danny Ramsey, ZA

RCRA ENFORCE- MENT	REB STAFF	REB SECTION CHIEF	REB CHIEF
INIT. DATE	O.R. 1/16/89	2/1 1/9/89	

P.S.N.
1-10-89

**LIBERTY
MUTUAL**



1775 Lisbon Road, P.O. Box 4600, Lewiston, Maine 04240 • Tel. (207) 784-4011

Region 5

Environmental Protection Agency
230 South Dearborn Street
Chicago, Illinois 60604

Lewiston NR & MTD Production

Attn: Thomas Golz
Waste Management Branch

Gentlemen:

Re: Barber-Colman Company

Kindly note paragraph checked below:

LG1-641-004062-04 Effective 7/15/82 to Until Canc.

_____The above policy is cancelled as of 2-23-89

_____The above policy is reinstated as of _____

Sincerely,

Virginia J. Miller
Virginia J. Miller
Production Manager

VJM/hj

LIBERTY MUTUAL INSURANCE COMPANY • LIBERTY MUTUAL FIRE INSURANCE COMPANY
LIBERTY LIFE ASSURANCE COMPANY OF BOSTON • LIBERTY INSURANCE CORPORATION
BOSTON, MASSACHUSETTS
EQUAL OPPORTUNITY EMPLOYERS

**LIBERTY
MUTUAL**



1775 Lisbon Road, P.O. Box 4600, Lewiston, Maine 04240 • Tel. (207) 784-4011

Region 5

Environmental Protection Agency
230 South Dearborn Street
Chicago, Illinois 60604

Lewiston NR & MID Production

Attn: Thomas Golz
Waste Management Branch

RECEIVED
DEC 27 1988
OFFICE OF RCRA
Waste Management Division
U.S. EPA, REGION V

Gentlemen:

Re: Barber-Colman Company

Kindly note paragraph checked below:

LG1-641-004062-04 Effective 7/15/82 to Until Canc.

_____ The above policy is cancelled as of 2-23-89

_____ The above policy is reinstated as of _____

Sincerely,

Virginia J. Miller
Virginia J. Miller
Production Manager

VJM/bj

PLEASE STAMP AND RETURN TO:
LIBERTY MUTUAL INS. CO.
P.O. BOX 4600
LEWISTON, MAINE 04240
c/o NATIONAL RISKS DEPT.

LIBERTY MUTUAL INSURANCE COMPANY • LIBERTY MUTUAL FIRE INSURANCE COMPANY
LIBERTY LIFE ASSURANCE COMPANY OF BOSTON • LIBERTY INSURANCE CORPORATION
BOSTON, MASSACHUSETTS

EQUAL OPPORTUNITY EMPLOYERS



International Division
44 Wall Street, 15th floor
New York City, New York 10005
(212) 635-9150

December 27, 1988

Director
U.S. Environmental
Protection Agency
230 South Dearborn Street
Chicago, Illinois 60604

RE: **AKZO AMERICA, INC.**
ARMAK INDUSTRIAL CHEMICAL DIVISION

Gentlemen:

Enclosed is the Hazardous Waste Facility Certificate of Liability Insurance from certifying Proof of Insurance for the above named Insured.

Regards,

DANNY RAMSEY
Account Representative
International Division

DR/jj
Enclosure

cc: Hon Fong

RECEIVED
JAN 4 - 1989
OFFICE OF RCRA
Waste Management Division
U.S. EPA, REGION V

Zurich-American Insurance Group
Zurich Insurance Company
American Guarantee and Liability Insurance Company
Zurich American Insurance Company of Illinois
American Zurich Insurance Company
Zurich American Lloyds

HAZARDOUS WASTE FACILITY CERTIFICATE OF LIABILITY INSURANCE

ZURICH AMERICAN INSURANCE COMPANY

NEW YORK, N.Y. 10005

(the "Insurer"), of 44 WALL STREET

to AKZO INC. (AKZO CHEMIE AMERICA)

(the "insured"), of ASHEVILLE

in connection with the insured's obligation to demonstrate financial responsibility under 35 Illinois Administrative Code Parts 724.247 or 725.247. The coverage applies at:

USEPA I.D. No. ILD 000805705

Sudden
Accidental
OccurrencesNonsudden
Accidental
OccurrencesSudden and
Nonsudden
Accidental
Occurrences

Name AKZO CHEMIE AMERICA

X

Address ARMAK INDUSTRIAL CHEMICAL DIVISION
8401 WEST 47th STREET

City MCCOOK, IL 60525

USEPA I.D. No. ILD 000805705

X

Name AKZO CHEMIE AMERICA
ARMAR RESEARCH LABORATORY

Address 8401 WEST 47th STREET

City MCCOOK, IL 60525

Please attach a separate page if more space is needed for all facilities.

The limits of liability are \$ BI 1,000,000 PD 1,000,000 each occurrence and \$ 1,000,000 1,000,000 annual aggregate exclusive of legal defense costs. The coverage is provided under policy number GLC3897176-05 issued on JANUARY 1 1989

The effective date of said policy is JANUARY 1, 1990

2 The Insurer further certifies the following with respect to the insurance described in Paragraph 1:

- (a) Bankruptcy or insolvency of the insured shall not relieve the Insurer of its obligations under the policy.
- (b) The Insurer is liable for the payment of amounts within any deductible applicable to the policy, with a right of reimbursement by the insured for any such payment made by the Insurer. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated as specified in 35 Illinois Administrative Code 724.247(d) or 725.247.
- (c) Whenever requested by the Director of the Illinois Environmental Protection Agency (IEPA), the Insurer agrees to furnish to the Director a signed duplicate original of the policy and all endorsements.
- (d) Cancellation of the insurance, whether by the Insurer or the insured, will be effective only upon written notice and only after the expiration of sixty (60) days after a copy of such written notice is received by the IEPA Director.
- (e) Any other termination of the insurance will be effective only upon written notice and only after the expiration of thirty (30) days after a copy of such written notice is received by the IEPA Director.

I hereby certify that the Insurer is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more States.

Signature

Typed name DANNY RAMSEY

Title INTERNATIONAL ACCOUNT REPRESENTATIVE

Authorized Representative of ZURICH AMERICAN INSURANCE COMPANY

Address of Representative 44 WALL STREET NEW YORK, N.Y. 10005

RECEIVED
JAN 4 - 1989
OFFICE OF RCRA
WASTE Management Division
U.S. EPA, REGION V

This Agency is authorized to require that the Insured submit this document under Illinois Revised Statutes 1981, Chapter 111 1/2, Section 21(f). Failure to do so may result in a civil penalty against the Insured of not to exceed \$25,000 per day of violation. Falsification of this information by any person may constitute a Class 4 felony, and may also carry a fine of not to exceed \$25,000 per day for the first offense. This form has been approved by the Form Management Center.



State of Illinois

ENVIRONMENTAL PROTECTION AGENCY

USEPA

Mary A. Gade, Director
217/524-3300

*Part B Permit
application
Material*

2200 Churchill Road, Springfield, IL 62794-9276

April 29, 1993

Mr. George Yanku
Akzo Chemicals, Inc.
300 South Riverside Plaza
Chicago, Illinois 60606-6697

RECEIVED JUN 30 1993
WMD RCRA
RECORD CENTER *Part B*

Re: 0311740009--Cook County
ILD000805705
Akzo Chemicals, Inc.
Log No. C-615-M-3
Received: January 29, 1993
RCRA Closure

Dear Mr. Yanku:

This letter is in response to the documents entitled RCRA Storage Pad Integrity Inspection Report and Hydrogeological Characteristics dated January, 1993 and received by the Agency on January 29, 1993. This document was prepared and submitted by Huff & Huff Environmental Consultants on behalf of Akzo Chemicals, Inc. The subject submittal was reviewed as a closure plan modification request due to the fact that it addressed the integrity of the concrete storage pad and the surrounding hydrogeologic characteristics. The modified closure plan for the hazardous waste container storage area (S01) at the above-referenced facility is hereby approved subject to the following conditions and modifications (it is understood that some of the requirements associated with these conditions and modifications may have been met):

1. This approval letter shall supersede the previous letters dated November 6, 1992 and March 30, 1993.
2. Except as modified by the subject submittal and this letter, closure activities shall be carried out in accordance with Log No. C-615-M-2.
3. Closure activities must be completed by November 1, 1993. When closure is complete the owner or operator must submit to the Agency certification both by the owner or operator and by an independent registered professional engineer that the facility has been closed in accordance with the specifications in the approved closure plan. This certification must be received at this Agency within sixty (60) days after closure, or by January 1, 1994. These dates may be revised if Akzo Chemical Inc. finds that additional time is necessary to complete all required closure activities and Akzo Chemicals, Inc. demonstrates to the Agency that it is attempting to

complete closure in a timely manner.

The attached closure certification form must be used. Signatures must meet the requirements of 35 Ill. Adm. Code Section 702.126. The independent engineer should be present at all critical, major points (activities) during the closure. These might include soil sampling, soil removal, backfilling, final cover placement, etc. The frequency of inspections by the independent engineer must be sufficient to determine the adequacy of each critical activity. Financial assurance must be maintained for the units approved for closure herein until the Agency approves the facility's closure certification.

The Illinois Professional Engineering Act (Ill. Rev. Stat., Ch. 111, par. 5101 et. seq.) requires that any person who practices professional engineering in the State of Illinois or implies that he (she) is a professional engineer must be registered under the Illinois Professional Engineering Act (par. 5101, Sec. 1). Therefore, any certification or engineering services which are performed for a closure plan in the State of Illinois must be done by an Illinois P.E.

Plans and specifications, designs, drawings, reports, and other documents rendered as professional engineering services, and revisions of the above must be sealed and signed by a professional engineer in accordance with par. 5119, sec. 13.1 of the Illinois Professional Engineering Act.

As part of the closure certification, document the closure activities at the subject facility, a Closure Documentation Report must be submitted which includes the following:

- a. The volume of waste, waste residue and contaminated soil (if any) removed. The term waste includes wastes resulting from decontamination activities.
- b. Scaled drawings showing the horizontal and vertical boundaries of the extent of any soil removal effort.
- c. A description of the method of waste handling and transport.
- d. The waste manifest numbers.
- e. Copies of the waste manifests.
- f. A chronological summary of closure activities and the cost involved.
- g. Color photo documentation of closure. Document

conditions before, during and after closure.

- h. Information documenting the results of all soil sampling/analysis efforts. The goal of presenting this information should be to describe, in a logical manner, the activities and results associated with the sampling/analysis effort. At a minimum, this information must include:
1. identification of the reason for the sampling/analysis effort and the goals of the effort;
 2. a summary in tabular form of all analytical data, including all quality assurance/quality control data;
 3. a scaled drawing showing the horizontal and vertical locations from which all soil samples were collected;
 4. identification of the depth and vertical interval from which each sample was collected;
 5. a description of the soil sampling procedures, sample preservation procedures and chain of custody procedures;
 6. identification of the test method used and detection limits achieved, including sample preparation, sample dilution (if necessary) and analytical inferences;
 7. copies of the final laboratory report sheets, including final sheets reporting all quality assurance/quality control data;
 8. visual classification of each soil sample in accordance with ASTM D-2488;
 9. a summary of all procedures used for quality assurance/quality control; including the results of these procedures; and
 10. a discussion of the data, as it relates to the overall goal of the sampling/analysis effort.

The original and two (2) copies of all certifications, logs, or reports which are required to be submitted to the Agency by the facility should be mailed to the following address:

Illinois Environmental Protection Agency
Division of Land Pollution Control -- #33

Permit Section
2200 Churchill Road
Post Office Box 19276
Springfield, Illinois 62794-9276

4. The concrete surfaces and sumps shall be visually inspected, photographed and any residue adhering to the surface must be removed by scraping and/or brushing. Following this, the concrete surfaces must be steam cleaned and triple rinsed. All wash and rinse water shall be collected. If analysis of the wash or rinse water samples detect the presence of F001 constituents above the constituent's PQL identified in SW-846 (Third Edition, including Final Update I), then that material must be managed as a hazardous waste. If the wash or rinse water samples exhibit a characteristic of hazardous waste then that material must be managed as a hazardous waste. In any event the material must be managed as a special waste.

After cleaning the concrete surfaces, an independent registered professional engineer shall inspect the integrity of the concrete surfaces. These surfaces shall be inspected for cracks which penetrate through the concrete. In addition, all construction joints must be inspected to ensure they are watertight. This inspection must be carried out in accordance with standards and recommendations of professional/technical entities such as the American Concrete Institute, the Portland Cement Association, the American Society for Testing and Materials, the American Society of Civil Engineers, etc. which relate to the ability of concrete structures to contain liquids. The results of this inspection shall be (1) submitted in the form of a report, (2) included in the closure documentation report required by condition, and (3) certified in accordance with 35 Ill. Adm. Code 702.126 by the engineer. The reports must include (1) the results of the inspection, (2) scaled drawings showing the location of all cracks and construction joints observed during the investigation, (3) conclusions reached regarding any cracks or construction joints observed in the areas of concern, (4) justification for the conclusions reached (e.g., information must be provided which indicates that any construction joints in the areas of concern are indeed watertight), and (5) photographs to support the conclusions reached.

5. If joints, cracks or other defects are found in the hazardous waste container storage area (S01) which would potentially allow hazardous waste or hazardous constituents to migrate through them. Soil samples must be collected from beneath them to determine if hazardous waste or hazardous constituents have been released to the underlying soil. This sampling/analysis effort shall be

carried out in accordance to the below procedures.

- a. Samples must be collected from at least one location along each joint or crack that provides a potential for hazardous waste or hazardous constituents to migrate to underlying soil. If the crack/joint is more than 15' long, then samples must be collected from along crack/joint at 15' intervals. Such locations shall be biased to stained areas or low-lying areas where spills would tend to accumulate.
 - b. The procedures used to collect and analyze all samples shall be carried out in accordance with the procedures approved by this letter.
 - c. Samples shall be collected from 0"-6" and 18"-24" below the subgrade/natural soil interface.
6. Based on the sampling conducted near the hazardous waste container storage area, the soil surrounding the area contains containment levels exceeding the established soil cleanup objectives (CUOs) in Condition 9. Therefore, additional sampling must be done to determine the horizontal and vertical limits of the soil which exceed the CUOs. The following procedure must be utilized in the collection of all required soil samples:
- a. The procedures used to collect the soil samples must be sufficient so that all soil encountered is classified in accordance with ASTM Method D-2488.
 - b. If a drill rig or similar piece of equipment is necessary to collect required soil samples, then:
 1. the procedures specified in ASTM Method D-1586 (Split Spoon Sampling) or D-1587 (Shelby Tube Sampling) must be used in collecting the samples.
 2. Soil samples must be collected continuously at several locations to provide information regarding the shallow geology of the area where the investigation is being conducted;
 - c. Soil samples not collected explicitly for VOC analysis should be field-screened for the presence of VOCs;
 - d. All soil samples which will be analyzed for volatile organic compounds must be collected in accordance with Attachment 7 of the Agency's RCRA closure plan instructions;
 - e. All other soil samples must be collected in accordance with the procedures set forth in SW-846.

- f. When visually discolored or contaminated material exists within an area to be sampled, horizontal placement of sampling locations shall be adjusted to include such visually discolored and/or contaminated areas. Sample size per interval shall be minimized to prevent dilution of any contamination.
7. Quality assurance/quality control procedures which meet the requirements of SW-846 must be implemented during all required sampling/analysis efforts.
8. All soil samples shall be analyzed individually (i.e., no composting). Analytical procedures shall be conducted in accordance with Test Methods for Evaluating Solid Wastes, Third Edition (SW-846). When a SW-846 (Third Edition) analytical method is specified, all the chemicals listed in the Quantitation Limits Table for that method shall be reported unless specifically exempted in writing by the Agency. Apparent visually contaminated material within a sampling interval shall be included in the sample portion of the interval to be analyzed. To demonstrate a parameter is not present in a sample, analysis results must show a detection limit at least as low as the PQL for that parameter in the third edition of SW-846. For inorganic parameters, the detection limit must be at least as low as the RCRA Groundwater Detection Limits, as referenced in SW-846 (Third Edition) Volume 1A, pages TWO-29 and TWO-30, Table 2-15. If possible, your sampling program should be extensive enough to determine the lateral and vertical extent of contamination to the detection limit (PQLs) referenced above.

Please note, the Agency will establish cleanup objectives for compounds which are detected above their required detection limit, if a cleanup objective has not been established.

9. To ensure the clean-closure requirements of 35 IAC 725.211 and 725.214 are met, the soil which remains in and around the hazardous waste storage area must meet the following soil cleanup objectives (unless otherwise noted, the unit of concentration associated with the values in the table is mg/kg):

Parameter	Soil Objective (mg/kg)	Soil ADL (mg/kg)
Acenaphthene (2)	8.4	0.66
Anthracene (2)	42.0	0.66

Benzo(a)anthracene	0.0026	0.0087
Benzo(a)pyrene	0.0046	0.015
Benzo(b)fluoranthene	0.0036	0.012
Benzo(k)fluoranthene	0.0034	0.011
Chrysene	0.03	0.1
Dibenzo(a,h)anthracene (2)	0.006	0.02
Fluoranthene	5.6	0.14
Fluorene (2)	5.6	0.14
Indeno(1,2,3-c,d)pyrene	0.0086	0.029
Naphthalene	0.025	0.0006
Other Non-Carcinogenic PNAs	4.2	
Acenaphthylene (2)		0.66
Benzo(g,h,i)perylene		0.051
Phenanthrene		0.66
Tetrachloroethylene	0.005	0.0004
Trichloroethylene	0.005	0.0001
1,1-Dichloroethane (2)	0.7	0.0007
1,1-Dichloroethylene (2)	0.007	0.0007
cis-1,2-Dichloroethylene (2)	0.07	0.0001
trans-1,2-Dichloroethylene (2)	0.10	0.0005
1,2-Dichloroethane (2)	0.005	0.0005
Vinyl chloride (2)	0.002	0.00006
Formaldehyde	ADL	Refer to Note 3

NOTES:

- (1) ADL = Acceptable detection limit; for guidance only.
- (2) TCLP = Cleanup objective based on the analysis of the extract from the Toxicity Characteristic Leaching Procedure -- Method 1311 of Test Methods for Evaluating Solid Waste, Third Edition (SW-846).

- (3) Acceptable Detection Limits have been set by the Agency to aid in the evaluation of residual soil contamination for those substances where health or environmentally based cleanup objectives are below commonly attainable detection limits. The stated cleanup objectives remain the goal; however the Agency will accept analyses as proof of acceptable cleanup if these analyses (1) do not detect the parameter of concern, (2) have a detection limit which is at or below the ADL for that parameter and (3) were conducted in accordance with the quality assurance criteria set forth in SW-846.
10. If contaminated soil is encountered during any required soil sampling/analysis effort, then a sufficient number of additional samples should be collected and analyzed to clearly determine the horizontal and vertical limits of the soil which exceed the established cleanup objective in and around the hazardous waste storage area closure. The procedures used to collect and analyze these samples must be in accordance with those approved by this letter. The procedures used for determining the horizontal and vertical locations from which these samples must be collected shall be in accordance with Sections 13.a and 13.b of the Agency's RCRA closure plan instructions. However, no random sampling shall be used to make this determination.
 - a. The Agency shall be notified in writing if contaminants not listed in Condition 9 are detected above their respective practical quantitation limit. This notification shall identify the additional constituents detected and the concentration at which they were detected. The Agency will review this information and establish cleanup objectives for the newly detected contaminants, if necessary. The sampling and analysis effort being carried out to determine the extent of contamination shall not be delayed while the Agency reviewing this information.
11. The Agency must be notified in writing if, at anytime, it is found that soil contamination above the established cleanup objectives extends to near the water table. This notification must be made within 15 days after such a discovery is made. A plan to investigate for potential groundwater contamination must be submitted to the Agency for review and approval within 60 days after the initial written notification is submitted to the Agency.
12. If groundwater is encountered during the soil sampling activities prior to reaching soil which meets the cleanup objectives, a plan to investigate for potential groundwater contamination must be submitted to the Agency

for review and approval. Such a plan must be submitted within sixty (60) days after the date that the analytical results are received which indicate that soil contamination extends to the water table. In addition, the Agency shall be notified in writing of this discovery within five (5) days after these analytical results are received.

13. If Akzo Chemical determines that soil excavation and off-site disposal is not the preferred remedial action for this closure, then the Agency must be notified in writing when such a determination is made. At that time, the Agency will provide Akzo Chemical with additional guidance regarding the information which must be submitted to the Agency for review and approval relative to the alternative remedial action which the facility would like to implement.
14. Contaminated soil may be excavated and disposed off-site at any time during closure. The goal of any such effort should be to remove all soil which exceeds the established cleanup objectives.
15. If removal and off-site disposal is the remedial action chosen for any soil contamination found, then all contaminated soil which is excavated for off-site disposal must be:
 - a. managed as hazardous waste in accordance with 35 IAC 722, 723, 728 and 809, as well as all applicable federal requirements.
 - b. Analyzed to determine if it possesses any of the characteristics of hazardous waste as set forth in 35 IAC 721, Subpart C.
 1. If the soil is determined to be a hazardous waste, then it must be managed in accordance with the requirements set forth in Condition 6.a above.
 2. If the soil is determined to be a non-hazardous waste, then it must be managed as a non-hazardous special waste in accordance with 35 IAC 809.
16. If removal and off-site disposal is the chosen remedial action for any soil contamination found, then soil samples must be collected for analysis from the bottom and sidewalls of the final excavation from which contaminated soil was removed. This sampling and analysis effort necessary to demonstrate that the remaining soil meets the established cleanup objectives.
 - a. A grid system as set forth in Section 13.b of the Agency's closure plan instructions must be

established over the excavation.

- b. Samples must be collected from the floor of the excavation at each grid intersection, including intersections along the perimeter of the excavation.
 - c. Samples must be collected 6"-12" from the top of the excavation wall at each grid intersection around the excavation perimeter. Samples must also be collected at the midpoint of the excavation wall at each grid intersection along the excavation perimeter.
 - d. Collection/Analysis of all required samples must be in accordance with the procedures approved in this letter.
 - e. Soil samples which must be analyzed for volatile organic compounds shall be collected using Attachment 7 of the Agency's RCRA closure plan instructions. Additionally, such samples must be collected 6"-12" beneath the floor/sidewalls of the excavation to minimize the possibility of volatilization of the contaminants prior to the collection of the samples.
 - f. No random sampling shall be conducted to verify that the cleanup objectives have been met.
17. If removal and off-site disposal is the chosen remedial action for any soil contamination found, then additional soil must be removed, as necessary, until it can be demonstrated that the remaining soil in and around the area of concern meets the established cleanup objectives. Additional samples must be collected and analyzed in accordance with the conditions of this letter.
18. All references to the "Agency's RCRA closure plan instructions" refer to the document entitled Instructions for the Preparation of Closure Plans for Interim Status RCRA Hazardous Waste Facilities, December 11, 1990.
19. If the Agency determines that implementation of this closure plan fails to satisfy the requirements of 35 Ill. Adm. Code, Section 725.211, the Agency reserves the right to amend the closure plan. Revisions of closure plans are subject to the appeal provisions of Section 40 of the Illinois Environmental Protection Act.
20. Under the provisions of 29 CFR 1910 (51 FR 15,654, December 19, 1986), cleanup operations must meet the applicable requirements of OSHA's Hazardous Waste Operations and Emergency Response standard. These requirements include hazard communication, medical surveillance, health and safety programs, air monitoring,

decontamination and training. General site workers engaged in activities that expose or potentially expose them to hazardous substances must receive a minimum of 40 hours of safety and health training off site plus a minimum of three days of actual field experience under the direct supervision of a trained experienced supervisor. Managers and supervisors at the cleanup site must have at least an additional eight hours of specialized training on managing hazardous waste operations.

21. The Illinois Pollution Control Board recently finalized regulations establishing groundwater quality standards for the State of Illinois (see 35 IAC 620). As such, the Agency must ensure that the soil cleanup objectives established for this facility will not cause any future violations of these standards. Therefore, unless site specific information is submitted to the Agency to indicate otherwise, soil cleanup objectives for this site will be based upon the protection of Class I groundwater (potable resource groundwater). Guidance regarding the information which must be provided to the Agency for review and approval demonstrating that the soil clean-up objectives should be based upon the protection of Class II groundwater (general resource groundwater) is provided in an attachment. Due to the following comments, soil cleanup objectives will still be based on the protection of Class I groundwater.

1. Bedrock in the area is estimated to be at 30 to 50 feet below the ground surface. Five borings were extended to a depth of 15.5 feet. Groundwater was not encountered in any of the borings and no attempt has been made to investigate deeper depths. However, it is possible that groundwater could be present at 15 to 50 feet.

If the vertical extent of soil contamination has not been determined at the site, the facility must continue the investigation of contamination until the vertical extent is established. If groundwater is encountered before the vertical extent is established an investigation of the groundwater to determine if the release has affected groundwater is required to be performed. In addition, a characterization pursuant to 35 IAC 620 regulations should take place. Class I will be assigned to the groundwater until hydrogeological data from on-site investigations is provided to reclassify the groundwater.

2. Based on ISWS well logs, public and private well logs, and quarry activities (Vulcan Materials) the facility has characterized the groundwater in the upper dolomite as Class II. The Agency cannot concur with

the facility's conclusion. By being located 10 feet or more below the land surface and in fractured carbonate which is 15 feet or more in thickness the groundwater meets the definition of Class I as found in 35 IAC 620.210.

22. If clean closure cannot be achieved pursuant to 35 IAC 725 then a modified closure plan and a post-closure plan prepared pursuant to 35 IAC Section 725 must be submitted to the Agency for review and approval within 60 days of such a determination.
23. 35 IAC 721.131 F001 through F005 wastes must be disposed in accordance with 35 IAC Part 728.
24. To avoid creating another regulated storage unit during closure, it is recommended that you obtain any necessary permits for waste disposal prior to initiating excavation activities. If it is necessary to store excavated hazardous waste on-site prior to off-site disposal, do so only in containers or tanks for less than ninety (90) days. Do not create regulated waste pile units by storing the excavated hazardous waste in piles. the ninety (90) day accumulation time exemption (35 IAC 722.134) only applies to containers and tanks.
25. Please be advised that the requirements of the Responsible Property Transfer Act (Public Act 85-1338) may apply to your facility due to the management of RCRA hazardous waste. In addition, please be advised that if you store or treat on-site generated hazardous waste in containers or tanks pursuant to 35 IAC 722.134, those units are subject to the closure requirements identified in 35 IAC 722.134(a)(1).
26. All hazardous wastes that result from this project are subject to annual reporting as required in 35 IAC 722.141 and shall be reported to the Agency by March 1 of the following year for wastes treated and left on-site or shipped off-site for storage, treatment and/or disposal during any calendar year. Additional information and appropriate report forms may be obtained from the Agency by contacting:

Facility Reporting Unit
Division of Land Pollution Control
Illinois Environmental Protection Agency
P.O. Box 19276
Springfield, Illinois 62794-9276

Akzo Chemical, Inc.
Page 13

Should you have any questions regarding this matter, please
contact Ron Rybolt at 217/524-3300.

Very truly yours,

Lawrence W. Eastep by *JHK*

Lawrence W. Eastep, P.E., Manager
Permit Section
Division of Land Pollution Control
Bureau of Land

LWE:RGR *JHK*

cc: USEPA Region V -- George Hamper
Huff & Huff, Inc.



State of Illinois

ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

Closure Certification Statement

Closure Log C-615-M-3

This statement is to be completed by both the responsible officer and by the registered professional engineer upon completion of closure. Submit one copy of the certification with original signatures and three additional copies.

The hazardous waste container storage area (S01) at the facility described in this document has been closed in accordance with the specifications in the approved closure plan. I certify under penalty of law that this document and all attachments were prepared under my direction of supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

USEPA ID Number

Facility Name

Signature of Owner/Operator

Name and Title

Signature of Registered P.E.

Name of Registered P.E. and
Illinois Registration Number

Mailing Address of P.E.:

Seal of Registered P.E.:

LWE:RGR

Zurich-American Insurance Group
Manhattan Region — Special Risk Division
44 Wall Street
New York, New York 10005
(212) 635-9150



ILD000805705

RECEIVED

DEC 31 1986

U. S. EPA REGION 5
OFFICE OF REGIONAL ADMINISTRATOR

December 30, 1986

Director
U.S. Environmental
Protection Agency
230 South Dearborn Street
Chicago, Illinois 60604

RE: **AKZO AMERICA INC.**
ARMAK INDUSTRIAL CHEMICAL DIVISION
EPA # 000805705

Gentlemen:

Enclosed is the Hazardous Waste Facility Certificate of Liability Insurance form certifying Proof of Insurance for the above named Insured.

Regards,

WHYATT GITTENS
Account Executive
International Division

WG:cs

cc: E. Daniels
M. Anderson
M. Walsh

HAZARDOUS WASTE FACILITY CERTIFICATE OF LIABILITY INSURANCE

1. ZURICH AMERICAN INSURANCE COMPANY (1), of 44 WALL STREET (2)
NEW YORK, N.Y. 10005 hereby certifies that it has issued liability insurance covering bodily injury and property damage
to AKZO INC. (AKZO CHEMIE AMERICA) (the "insured"), of ASHEVILLE
(3) in connection with the insured's obligation to demonstrate financial responsibility under 35 Illinois
Administrative Code Parts 724.247 or 725.247. The coverage applies at:

	Sudden Accidental Occurrences (2)	Nonsudden Accidental Occurrences (3)	Sudden and Nonsudden Accidental Occurrences (4)
USEPA I.D. No. <u>ILD 000805705</u> (1)			
Name <u>AKZO CHEMIE AMERICA</u>	X		
Address <u>ARMAK INDUSTRIAL CHEMICAL DIVISION</u>			
<u>8401 WEST 47th STREET</u>			
City <u>McCOOK, IL 60525</u>			
USEPA I.D. No. <u>ILD 000805705</u>	X		
Name <u>AKZO CHEMIE AMERICA</u>			
Address <u>ARMAK RESEARCH LABORATORY</u>			
<u>8401 WEST 47th STREET</u>			
City <u>McCOOK, IL 60525</u>			

Please attach a separate page if more space is needed for all facilities.

The limits of liability are \$ BI 1,000,000 each occurrence and \$ PD 1,000,000 annual aggregate exclusive of
(9) legal defense costs. The coverage is provided under policy number CGL 389717600 issued on JANUARY 1 1987
(10)
The effective date of said policy is JANUARY 1, 1987
(11) (12) (13)

2. The Insurer further certifies the following with respect to the insurance described in Paragraph 1:

- Bankruptcy or insolvency of the insured shall not relieve the Insurer of its obligations under the policy.
- The Insurer is liable for the payment of amounts within any deductible applicable to the policy, with a right of reimbursement by the insured for any such payment made by the Insurer. This provision does not apply with respect to that amount of any deductible for which coverage is demonstrated as specified in 35 Illinois Administrative Code 724.247(f) or 725.247.
- Whenever requested by the Director of the Illinois Environmental Protection Agency (IEPA), the Insurer agrees to furnish to the Director a signed duplicate original of the policy and all endorsements.
- Cancellation of the insurance, whether by the Insurer or the insured, will be effective only upon written notice and only after the expiration of sixty (60) days after a copy of such written notice is received by the IEPA Director.
- Any other termination of the insurance will be effective only upon written notice and only after the expiration of thirty (30) days after a copy of such written notice is received by the IEPA Director.

I hereby certify that the Insurer is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more States.

Signature

Typed name

WHYATT GITTENS

Title

INTERNATIONAL ACCOUNT EXECUTIVE

Authorized Representative of

ZURICH AMERICAN INSURANCE COMPANY

Address of Representative

44 WALL STREET NEW YORK, N.Y. 10005

This Agency is authorized to require that the Insured submit this document under Illinois Revised Statutes, 1981, Chapter 111 1/2, Section 214(f). Failure to do so may result in a civil penalty against the Insured of not to exceed \$25,000 per day of violation. Falsification of this information by any person may constitute a Class 4 felony, and may also carry a fine of not to exceed \$25,000 per day for the first offense. This form has been approved by the Forms Management Center.



Commercial Insurance Division

151 Farmington Avenue
Hartford, CT 06156
(203) 273-0123

January 31, 1986

U.S. Environmental Protection Agency
230 South Dearborn Street
Chicago, IL 60604

Gentlemen:

AKZO AMERICA, INC., ENKA, NORTH CAROLINA, 28728

Enclosed is an endorsement certifying proof of insurance
for the above-named insured.

Regards,

Keith A. Kraner

Keith Kraner
Aetna Casualty and Surety
Underwriting Department, E119
151 Farmington Avenue
Hartford, CT 06156
slt

O. WMD
CC: RF(CERT-ROUTINE)

RECEIVED

FEB 12 1986

AD-4

RECEIVED
FEB 13 1986

U.S. EPA, REGION V
WASTE MANAGEMENT DIVISION
OFFICE OF THE DIRECTOR

HAZARDOUS WASTE FACILITY ENDORSEMENT

This endorsement modifies such insurance as is afforded by the provisions of the policy relating to the following:

POLLUTION LIABILITY INSURANCE

It is agreed that:

1. The certification of the policy, as proof of financial responsibility under the provisions of Title 40 C.F.R. Part 264.147 or 265.147 (Environmental Protection Agency) amends the policy to provide insurance in accordance with the provisions of such regulations to the extent of coverage and limits of liability required thereby at the locations listed in the Schedule. Within the limits of liability provided, it is understood that no condition, provision, stipulation or limitation contained in the policy, or any other endorsement thereon or violation thereof or of this endorsement, by the insured, shall relieve the Company from liability hereunder or from the payment of any such final judgment, irrespective of the financial responsibility or lack thereof or insolvency or bankruptcy of the insured. However, all terms, conditions, and limitations in the policy to which this endorsement is attached are to remain in full force and effect as binding between the insured and the Company, and the insured agrees to reimburse the Company for any payment made by the Company on account of any accident, claim or suit involving a breach of the terms of the policy, and for any payment that the Company would not have been obligated to make under the provisions of the policy except for the agreement contained in this endorsement.
2. Whenever requested by the Regional Administrator, the Company agrees to furnish to the Regional Administrator a duplicate original of said policy and all endorsements thereon.
3. This endorsement may not be canceled without cancellation of the policy to which it is attached. Such cancellation may only be effected by the Company or the insured giving sixty (60) days' notice in writing to the Regional Administrator, such sixty (60) days' notice to commence to run from the date the notice is actually received by the Regional Administrator.
4. Notwithstanding any other provision of the policy, cancellation or termination may not be effected within 120 days of any fire, explosion, or unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, surface water, or ground water.

SCHEDULE

Limits of Liability

\$ 3,000,000 each claim

\$ 6,000,000 aggregate.

<u>LOCATIONS (NAME OF FACILITY)</u>	<u>ADDRESS OR LOCATION</u>	<u>EPA IDENTIFICATION</u>
1. AKZO CHEMIE AMERICA ARMAK INDUSTRIAL CHEMICAL DIVISION	8201 WEST 47TH ST. MCCOOK, ILL 60525	ILD 057833642
2. AKZO CHEMIE AMERICA ARMAK RESEARCH LABORATORY	8401 WEST 47TH ST. MCCOOK, ILL 60525	ILD 000805705
3. AKZO CHEMIE AMERICA ARMAK INDUSTRIAL CHEMICAL DIVISION	P.O. BOX 310 MORRIS, ILL 60450	ILD 065237851

This endorsement forms a part of the policy to which attached, effective from its date of issue unless otherwise stated herein.

(The information below is required only when this endorsement is issued subsequent to preparation of policy.)

Endorsement Effective 1-1-86 Policy No. 01 GL 554249 SCA Endorsement No. 5
Name of Insured AKZO AMERICA INC.



Commercial Insurance Division

151 Farmington Avenue
Hartford, CT 06156
(203) 273-0123

October 16, 1986

U. S. ENVIRONMENTAL PROTECTION AGENCY
230 South Dearborn Street
Chicago, IL 60604

Gentlemen:

AKZO AMERICA, INC.: ARMAK RESEARCH LABORATORY
EPA# ILD000805705

Please be advised, effective 1-1-87, we are non-renewing all coverage currently afforded to the above Named Insured. Enclosed is our Notice of Non-Renewal.

Sincerely,

Wendy A. Williams
Senior Account Analyst
Aetna Casualty and Surety Company
151 Farmington Avenue
Hartford, CT 06156
Attn: National Accounts Department, E119

ljf

Notice of Cancellation or Non Renewal

TO:
U.S. Environmental Protection Agency
230 South Dearborn Street
Chicago, Illinois 60604

☒ The Aetna Casualty & Surety Company
☐ The Standard Fire Insurance Company
☐

This to notify you that effective 1-1-87
the Hazardous Waste Facility Certificate of Liability Insurance demonstrating
financial responsibility under 40 C.F.R. 264.147, 265.147 or comparable state law
is cancelled.

Effective 1-1-86 To 1-1-87
issued for the following Insured is

Policy Number 01 GL 554249 SCA

☐ Cancelled

☒ NON Renewed


AKZO America, Inc.
Name of Insured

111 West 40th Street
Address

New York, New York 10018

AKZO CHEMIE AMERICA
Arnak Research Laboratory
Name of Facility
8401 West 47th Street
McCook, Illinois 60525
Address
ILD00805705

E.P.A. Identification Number


(Signature)

Thomas E. Quinn, Director, NAD
Name & Title of Authorized Representative
of Aetna Casualty & Surety Co.

151 FARMINGTON AVENUE, HARTFORD CT. 06155
Address of Representative

**Commercial Insurance Division**

151 Farmington Avenue
Hartford, Connecticut 06156
(203) 273-0123

RECEIVED

O. W. M. R.
cc: R. F.

OCT 30 1985

Date

10-28-85

- ☐ National Council on Compensation Insurance, One Penn Plaza, New York, N.Y. 10001
☐ Interstate Compensation Rating Bureau, National Council on Compensation Insurance,
One Penn Plaza, New York, N.Y. 10001 Attention: Rating Division
☐ New York Compensation Insurance Rating Board, 200 East 42nd Street, New York, N.Y. 10017
☐ Insurance Services Office, 160 Water Street, New York, N.Y. 10038
☐ State Board of Insurance, 1110 San Jacinto, Austin, TX 78786 Attention: Retrospective Rating Dept.

SUBJECT:

AKZONIA INC.

Name of Risk

City and State

Effective Date _____ Type of Plan _____ Term _____ Policy No. 016246092880A

(Note: Field Office completes the above line only on Risks subject to Retrospective Rating)

Dear Sir:

Your attention is directed to each item marked "X"

1. Referring to (your) (our) () letter dated _____
2. We would appreciate a reply to our letter of _____
3. We would appreciate receiving your approval of our filing of _____
 - (a) experience and schedule rating.
 - (b) (a) rates.
 - (c) composite rates.
 - (d) retrospective factors.
4. We are releasing our rating rights.
5. Please send us the outstanding experience and schedule modification effective:
 - (a) currently;
 - (b) as of _____
6. Please send us rating data for this risk, effective _____
7. We enclose
 - (a) Copy of application in caption.
 - (b) Copy of _____ rating data effective _____
 - (c) Copy of letter from _____
 - (d) Retrospective Rating Form _____
 - (e) _____
8. Please mark your records to indicate a _____ adjustment is desired for the _____ Plan.
Term of Plan
9. REMARKS:

ENCLOSED IS NOTICE OF CANCELLATION

Underwriting Department: ☐ CID☒ National Accts.

By:

Jonathan Buzar
Signature

Office:

H.O. ET19

The Aetna Casualty and Surety Company
One of the AETNA LIFE & CASUALTY Companies

Notice of Cancellation or Non Renewal

TO: U.S. ENVIRONMENTAL PROTECTION ☒ The Aetna Casualty & Surety Company
AGENCY
230 SOUTH DEARBORN ST. ☐ The Standard Fire Insurance Company
CHICAGO, IL 60604 ☐

This to notify you that effective 1-1-86
the Hazardous Waste Facility Certificate of Liability Insurance demonstrating
financial responsibility under 40 C.F.R. 264.147 or 265.147 or comparable
state law is cancelled.

Effective 1-1-85 Policy Number 01 GL 460978 SCA
issued for the following Insured is
☐ Cancelled
☒ NON Renewed

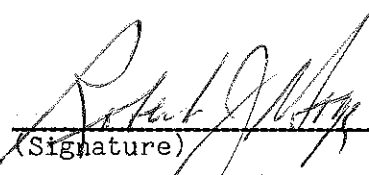
AKZONA, INC.
Name of Insured

ENKA, NC 28728
Address

ARMAK RESEARCH LABORATORY
Name of Facility

8401 WEST 47TH ST., MCCOOK, ILL 60525
Address

ILD 000805705
E.P.A. Identification Number


(Signature)
ROBERT J. HAGER, DIRECTOR
Name & Title of Authorized Representative
of Aetna Casualty & Surety Co.
151 FARMINGTON AVENUE, HARTFORD CT. 06156
Address of Representative